

List of Peer Reviewed Publications using Operation IceBridge Data and/or IceBridge Funding

As of July 3, 2012



Peer Reviewed Publications (published and in press)

1. Cochran, J. R., and Bell, R. E., Inversion of IceBridge gravity data for continental shelf bathymetry beneath the Larsen Ice Shelf, Antarctica, *Journal of Glaciology*, Vol. 58(209), 540-552, <http://dx.doi.org/10.3189/2012JoG11J033>, 2012.
2. Farrell, S. L., Kurtz, N., Connor, L. N., Elder, B. C., Leuschen, C., Markus, T., McAdoo, D. C., Panzer, B., Richter-Menge, J., and Sonntag, J. G., A First Assessment of IceBridge Snow and Ice Thickness Data Over Arctic Sea Ice, *IEEE Transactions on Geoscience and Remote Sensing*, Vol. 50(6), 2098-2111, <http://dx.doi.org/10.1109/tgrs.2011.2170843>, 2012.
3. Jezek, K. C., Cryosphere: Spaceborne and Airborne Measurements/Monitoring, in *Encyclopedia of Sustainability Science and Technology*, edited by J. Orcutt, Springer Science+Business Media, <http://dx.doi.org/10.1007/978-1-4419-0851-3>, in press.
4. Joughin, I., Smith, B. E., Howat, I. M., Floricioiu, D., Alley, R. B., Truffer, M., and Fahnestock, M., Seasonal to decadal scale variations in the surface velocity of Jakobshavn Isbrae, Greenland: Observation and model-based analysis, *Journal of Geophysical Research-Earth Surface*, Vol. 117, F02030, <http://dx.doi.org/10.1029/2011jf002110>, 2012.
5. Kurtz, N. T., and Farrell, S. L., Large-scale surveys of snow depth on Arctic sea ice from Operation IceBridge, *Geophys. Res. Lett.*, Vol. 38(20), L20505, <http://dx.doi.org/10.1029/2011gl049216>, 2011.
6. Kwok, R., Cunningham, G. F., Manizade, S. S., and Krabill, W. B., Arctic sea ice freeboard from IceBridge acquisitions in 2009: Estimates and comparisons with ICESat, *Journal of Geophysical Research-Oceans*, Vol. 117, C02018, <http://dx.doi.org/10.1029/2011jc007654>, 2012.
7. Kwok, R., Panzer, B., Leuschen, C., Pang, S., Markus, T., Holt, B., and Gogineni, S., Airborne surveys of snow depth over Arctic sea ice, *Journal of Geophysical Research-Oceans*, Vol. 116, C11018, <http://dx.doi.org/10.1029/2011jc007371>, 2011.
8. Larour, E., Seroussi, H., Morlighem, M., and Rignot, E., Continental scale, high order, high spatial resolution, ice sheet modeling using the Ice Sheet System Model (ISSM), *Journal of Geophysical Research-Earth Surface*, Vol. 117, F01022, <http://dx.doi.org/10.1029/2011jf002140>, 2012.
9. Larour, E., Schiermeier, J., Rignot, E., Seroussi, H., Morlighem, M., and Paden, J., Sensitivity Analysis of Pine Island Glacier ice flow using ISSM and DAKOTA, *Journal of Geophysical Research-Earth Surface*, Vol. 117, F02009, <http://dx.doi.org/10.1029/2011jf002146>, 2012.
10. Li, J., Paden, J., Hale, R., Leuschen, C., Rodriguez-Morales, F., Gomez-Garcia, D., and Gogineni, P., High-Altitude Radar Measurements of Ice Thickness Over the Antarctic and Greenland Ice Sheets as a Part of Operation IceBridge, *IEEE Transactions on Geoscience and Remote Sensing*, Vol. 50(12), <http://dx.doi.org/10.1109/TGRS.2012.2203822>, in press.
11. Mankoff, K., Jacobs, S., Tulaczyk, S., and Stammerjohn, S., The role of Pine Island Glacier ice shelf basal channels in deep-water upwelling, polynyas and ocean circulation in Pine Island Bay, Antarctica, *Annals of Glaciology*, Vol. 53(60), 123-128, <http://dx.doi.org/10.3189/2012AoG60A062>, 2012.

12. Morlighem, M., Rignot, E., Seroussi, H., Larour, E., Ben Dhia, H., and Aubry, D., A mass conservation approach for mapping glacier ice thickness, *Geophysical Research Letters*, Vol. 38, L19503, <http://dx.doi.org/10.1029/2011gl048659>, 2011.
13. Onana, V., Kurtz, N., Farrell, S., Koenig, L., Studinger, M., and Harbeck, J., A Sea-Ice Lead Detection Algorithm for Use With High-Resolution Airborne Visible Imagery, *IEEE Transactions on Geoscience and Remote Sensing*, Vol. 50(12), <http://dx.doi.org/10.1109/TGRS.2012.2202666>, in press.
14. Schodlok, M., Menemenlis, D., Rignot, E., and Studinger, M., Sensitivity of the ice shelf ocean system to the sub-ice shelf cavity shape measured by NASA IceBridge in Pine Island Glacier, West Antarctica, *Annals of Glaciology*, Vol. 53(60), 156-162, <http://dx.doi.org/10.3189/2012AoG60A073>, 2012.
15. Thomas, R., Frederick, E., Li, J., Krabill, W., Manizade, S., Paden, J., Sonntag, J., Swift, R., and Yungel, J., Accelerating ice loss from the fastest Greenland and Antarctic glaciers, *Geophysical Research Letters*, Vol. 38, L10502, <http://dx.doi.org/10.1029/2011gl047304>, 2011.
16. Tinto, K. J., and Bell, R. E., Progressive unpinning of Thwaites Glacier from newly identified offshore ridge: Constraints from aerogravity, *Geophysical Research Letters*, Vol. 38, L20503, <http://dx.doi.org/10.1029/2011gl049026>, 2011.
17. Wright, A. P., Young, D. A., Roberts, J. L., Schroeder, D. M., Bamber, J. L., Dowdeswell, J. A., Young, N. W., Le Brocq, A. M., Warner, R. C., Payne, A. J., Blankenship, D. D., van Ommen, T. D., and Siegert, M. J., Evidence of a hydrological connection between the ice divide and ice sheet margin in the Aurora Subglacial Basin, East Antarctica, *Journal of Geophysical Research-Earth Surface*, Vol. 117, F01033, <http://dx.doi.org/10.1029/2011jf002066>, 2012.
18. Young, D. A., Wright, A. P., Roberts, J. L., Warner, R. C., Young, N. W., Greenbaum, J. S., Schroeder, D. M., Holt, J. W., Sugden, D. E., Blankenship, D. D., van Ommen, T. D., and Siegert, M. J., A dynamic early East Antarctic Ice Sheet suggested by ice-covered fjord landscapes, *Nature*, Vol. 474(7349), 72-75, <http://dx.doi.org/10.1038/nature10114>, 2011.

Technical Reports (not peer reviewed)

1. Martin, C. F., Krabill, W. B., Manizade, S. S., Russell, R. L., Sonntag, J. G., Swift, R. N., and Yungel, J. K., Airborne Topographic Mapper Calibration Procedures and Accuracy Assessment *NASA Technical Reports*, Vol. 20120008479(NASA/TM-2012-215891, GSFC.TM.5893.2012), <http://dx.doi.org/http://hdl.handle.net/2060/20120008479>, 2012.

EOS News Articles (peer reviewed)

1. Gardner, J., Richter-Menge, J., Farrell, S., and Brozena, J., Coincident multiscale estimates of Arctic sea ice thickness, *Eos Trans. AGU*, Vol. 93(6), <http://dx.doi.org/10.1029/2012eo060001>, 2012.
2. Howat, I. M., Jezek, K., Studinger, M., MacGregor, J. A., Paden, J., Floricioiu, D., Russell, R., Linkwiler, M., and Dominguez, R. T., Rift in Antarctic Glacier: A Unique Chance to Study Ice Shelf Retreat, *Eos Trans. AGU*, Vol. 93(8), <http://dx.doi.org/10.1029/2012eo080001>, 2012.

3. Koenig, L., Martin, S., Studinger, M., and Sonntag, J., Polar Airborne Observations Fill Gap in Satellite Data, *Eos Trans. AGU*, Vol. 91(38), <http://dx.doi.org/10.1029/2010eo380002>, 2010.